



COMMONWEALTH of VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

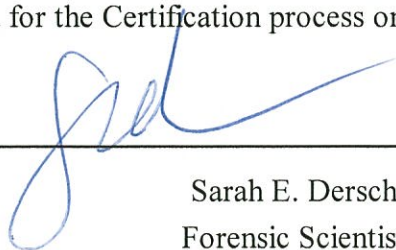
INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010606
CERTIFICATION DATE: April 30, 2014
DATE RECERTIFICATION DUE: October 27, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L 0.150 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L 0.250 ± 0.007 g/210 L


The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.



Sarah E. Dersch
Forensic Scientist

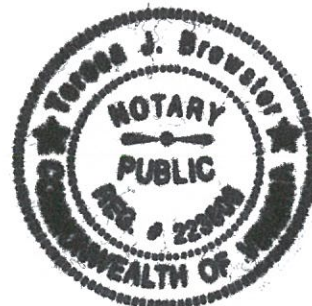
CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 2nd day of May, 2014 by Sarah E. Dersch



Teresa J. Brewster, Notary Public

My commission expires: April 30, 2017



**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 5/2/2014**

*HMS
Fick*

Instrument Serial Number: 010606

As of 02-May-14

Maintenance Date	Certification Date	Technician Initials	Remarks
30-Apr-14	30-Apr-14	HMS (18910)	CERTIFIED
14-Nov-13	14-Nov-13	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
13-Sep-13	13-Sep-13	TLN (25387)	MOVED INSTRUMENT TO NEW LOCATION. FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
07-Jun-13	07-Jun-13	HMS (18910)	CERTIFIED
12-Dec-12	12-Dec-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
26-Jun-12	26-Jun-12	HMS (18910)	CERTIFIED
19-Jan-12	19-Jan-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
02-Aug-11	02-Aug-11	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
08-Feb-11	08-Feb-11	RJP (22428)	CERTIFIED.
22-Oct-09	22-Oct-09	SED (24178)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
12-Aug-09	12-Aug-09	NMJ (22392)	REPLACED TANK TOP LID, CERTIFIED.
10-Dec-08	10-Dec-08	HMS (18910)	CERTIFIED.
12-Nov-08	12-Nov-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

JMS
JMS

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010606** Worksheet Start Date **4/30/2014**
Location **Dickenson County**
Address **1019 Happy Valley Dr., Clintwood, VA 24228**
DFS Technician **Heather Stanton** License No. **18910**
☐ Laboratory ☒ On-Site

Site Specification: No detrimental environmental conditions exist. ☒

Instrument Barometer (mm HG) **702** Reference Barometer (mm HG) **706**
Reference Barometer(RB)Serial # **009111** RB Calibration Due **5/23/2014**

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.279
0.300	0.277	0.268	0.285	Sample 2	0.279
Precision		sample min	sample max	Sample 3	0.279
0		0.279	0.279		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.092
0.100	0.092	0.089	0.095	Sample 2	0.092
Precision		sample min	sample max	Sample 3	0.092
0		0.092	0.092		

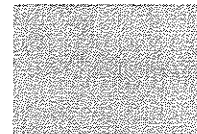
Dry gas standard Lot No. (with tank no.) **AG320502-07**

☐ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:



Notes:

Instrument Serial Number

010606

Certification Date

4/30/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.231
0.250	0.231	0.224	0.237	Sample 2	0.231
Precision		sample min	sample max	Sample 3	0.231
0		0.231	0.231		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.139
0.150	0.139	0.134	0.143	Sample 2	0.139
Precision		sample min	sample max	Sample 3	0.139
0		0.139	0.139		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.074
0.080	0.074	0.071	0.077	Sample 2	0.074
Precision		sample min	sample max	Sample 3	0.074
0		0.074	0.074		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.018
0.020	0.018	0.015	0.021	Sample 2	0.018
Precision		sample min	sample max	Sample 3	0.018
0		0.018	0.018		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician



Date

5/2/14

Issuing Analyst



Date

5/2/14

thos
Sul

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010606 Test Number: 285
Test Date: 04/30/2014 Test Time: 11:57 EDT

Technician Initials: HMS

Dry Gas Target: 0.231

Lot Number: 0771325014-02 Exp Date: 05/01/2015

Tank Pressure: 276 psi Barometric Pressure: 702 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:58
BLK	0.000	11:59
CHK	0.231	11:59
BLK	0.000	12:01
CHK	0.231	12:02
BLK	0.000	12:04
CHK	0.231	12:05
BLK	0.000	12:06

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

HMS
Sd

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010606 Test Number: 286
Test Date: 04/30/2014 Test Time: 12:07 EDT

Technician Initials: HMS

Dry Gas Target: 0.139

Lot Number: 0771315013-01 Exp Date: 05/01/2015

Tank Pressure: 825 psi Barometric Pressure: 702 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:08
BLK	0.000	12:09
CHK	0.139	12:09
BLK	0.000	12:11
CHK	0.139	12:12
BLK	0.000	12:13
CHK	0.139	12:14
BLK	0.000	12:16

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

HMS
fid

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010606 Test Number: 287
Test Date: 04/30/2014 Test Time: 12:17 EDT

Technician Initials: HMS

Dry Gas Target: 0.074

Lot Number: 0771308012-02 Exp Date: 05/01/2015

Tank Pressure: 958 psi Barometric Pressure: 701 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:17
BLK	0.000	12:18
CHK	0.074	12:19
BLK	0.000	12:20
CHK	0.074	12:21
BLK	0.000	12:22
CHK	0.074	12:23
BLK	0.000	12:25

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS
fid

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010606 Test Number: 288

Test Date: 04/30/2014 Test Time: 12:26 EDT

Technician Initials: HMS

Dry Gas Target: 0.018

Lot Number: 0771302011-01 Exp Date: 05/01/2015

Tank Pressure: 438 psi Barometric Pressure: 701 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:27
BLK	0.000	12:28
CHK	0.018	12:28
BLK	0.000	12:30
CHK	0.018	12:30
BLK	0.000	12:32
CHK	0.018	12:32
BLK	0.000	12:34

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

IMS
Sed

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010606 Test Number: 289

Test Date: 04/30/2014 Test Time: 12:36 EDT

Dry Gas Target: 0.277

Lot Number: AG334603-01 Exp Date: 12/12/2015

Tank Pressure: 360 psi Barometric Pressure: 701 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:37
CHK	0.279	12:37
BLK	0.000	12:39
CHK	0.279	12:40
BLK	0.000	12:42
CHK	0.279	12:43

Test Status: *Success*

Calibration CRC: 35EC39BD

4/30/14
rd

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010606 Test Number: 290

Test Date: 04/30/2014 Test Time: 12:45 EDT

Dry Gas Target: 0.092

Lot Number: AG320502-07 Exp Date: 07/24/2015

Tank Pressure: 1066 psi Barometric Pressure: 701 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	12:46
CHK	0.093	12:47
BLK	0.000	12:48
CHK	0.093	12:49
BLK	0.009	12:51

Test Status: Ambient Detected

Calibration CRC: 35EC39BD

5/2/14 sed

sd

5/2/14 sd

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010606 Test Number: 291

Test Date: 04/30/2014 Test Time: 12:52 EDT

System Check: Passed

Test	g/210L	Time
BLK	0.010	12:53

Test Status: Ambient Detected

Calibration CRC: 35EC39BD

Someone was spraying disinfectant everywhere.
I told him to stop. HNS 4/30/14

Then an Air blank, F7, twice.
HNS 4/30/14

I waited 15 minutes and ran another
air blank.

HNS 4/30/14



IntoxNet MIS Report

Report Generated 02 May 2014 at 08:26

Handwritten signature/initials

Test Results

Instrument Serial Number 010606

Test # 000292 Air Blank

Test Location 1 Department of
Test Date 30 Apr 2014

Test Location 2 Forensic Science

Test Time 12:54

Remote/Local Local

Sample Value 0.009

Sample Value *.***

Test Location 3

System Check Passed

Data Type BLK

Data Type BLK

Tamper Evident Stamp fc179a90

Test Status Operator abort

Sample Time 12:55

Sample Time 12:55

Test Status Code 1



IntoxNet MIS Report

Report Generated 02 May 2014 at 08:26

Handwritten initials/signature

Test Results

Instrument Serial Number 010606

Test # 000293 Air Blank

Test Location 1 Department of
Test Date 30 Apr 2014

Test Location 2 Forensic Science

Test Time 12:59

Remote/Local Local

Sample Value 0.007

Sample Value 0.007

Sample Value 0.007

Test Location 3

System Check Passed

Data Type BLK

Data Type BLK

Data Type BLK

Sample Time 13:00

Sample Time 13:01

Sample Time 13:02

Tamper Evident Stamp 19389cef

Test Status Code 13

Test Status Ambient Detected



IntoxNet MIS Report

Report Generated 02 May 2014 at 08:27

Handwritten initials/signature

Test Results

Instrument Serial Number 010606

Test # 000294 Air Blank

Test Location 1 Department of
Test Date 30 Apr 2014

Test Location 2 Forensic Science

Test Time 13:19

Remote/Local Local

Sample Value 0.000

Test Location 3

System Check Passed

Data Type BLK

Tamper Evident Stamp ce66d088

Test Status Success

Sample Time 13:20

Test Status Code 0

AMS
Red

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010606 Test Number: 295

Test Date: 04/30/2014 Test Time: 13:21 EDT

Dry Gas Target: 0.092

Lot Number: AG320502-07 Exp Date: 07/24/2015

Tank Pressure: 1071 psi Barometric Pressure: 701 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:22
CHK	0.092	13:23
BLK	0.000	13:25
CHK	0.092	13:25
BLK	0.000	13:27
CHK	0.092	13:28

Test Status: *Success*

Calibration CRC: 35EC39BD




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
---	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 04/30/2014
TEST EQUIPMENT NUMBER 010606		

RESULTS: TIME SAMPLE TAKEN **13:35 EDT**

SAMPLE'S ALCOHOL CONTENT **0.00** GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 02 May 2014 at 08:27

Handwritten signature/initials

Test Results

Instrument Serial Number 010606

Test # 000296 Subject Test

Test Location 1 Department of
Test Date 30 Apr 2014

Test Location 2 Forensic Science
Test Time 13:29
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 30 Apr 2014 End Time 13:36

Result Time 13:35

Result Date 30 Apr 2014

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 13:29

Data Type BLK

Sample Value 0.000

Sample Time 13:30

Data Type CHK

Sample Value 0.092

Sample Time 13:31

Data Type BLK

Sample Value 0.000

Sample Time 13:32

Data Type SUBJ

Sample Value 0.000

Sample Time 13:33

Data Type BLK

Sample Value 0.000

Sample Time 13:34

Data Type SUBJ

Sample Value 0.000

Sample Time 13:35

Data Type BLK

Sample Value 0.000

Sample Time 13:36

Standard Type Dry Gas Std

Standard Value 0.092

Standard Lot Number AG320502-07

Standard Expiration Date 07/24/2015

Tank Pressure 1061

Barometric Pressure 701 mmHg

Blow Sample Number 1 Blow Duration 3.26 sec

Blow Volume 1762 cc

End-of-Blow Time 13:33

Blow Sample Number 2 Blow Duration 3.45 sec

Blow Volume 1838 cc

End-of-Blow Time 13:35

Tamper Evident Stamp d032a236

Test Status Code 0

Test Status Success